Claims

What is claimed is:

- 1. A portable computing device, comprising:
- a component that receives an electro-magnetic flux generated from an external source; and
- a charging component that generates a charging current from the flux, and charges a rechargeable power supply.
- 2. The portable computing device of claim 1 further comprising a bar code scanner.
- 3. The portable computing device of claim 1 further comprising an artificial intelligence (AI) component that infers and/or determines when the power supply should be recharged.
- 4. The portable computing device of claim 3 further comprising a notification component that notifies a user of the device that the device should be exposed to the external flux source.
- The portable computing device of claim 1 further comprising:a controller that monitors a state of charge of the rechargeable power source.
- 6. The portable computing device of claim 1, the rechargeable power source being at least one of a fuel cell, a capacitor, a super capacitor, and a rechargeable battery cell.
- 7. The portable computing device of claim 6, the controller determines a charging time for the portable unit and allocates a charge time thereto.
- 8. The portable computing device of claim 1, further comprising:
 a notification component that alerts a user of power status of the rechargeable power supply.

9. A method of charging a portable unit comprising:

providing at least one primary induction assembly with a primary winding configured to create a magnetic flux;

providing a second pick up induction assembly coupled to a rechargeable power supply of a portable unit; the magnetic flux extendable in to the second pick up induction assembly; and

opportunistically recharging the power supply *via* a current created in the second induction assembly from the magnetic flux.

- 10. The method of claim 9, further comprising: opportunistically recharging the power supply without deactivating the portable unit.
- 11. The method of claim 9, further comprising: immediately recharging the power supply, when the magnetic flux extends in to the second pick up assembly.
- 12. The method of claim 9, further comprising:

 providing a controller to control at least one of the primary induction and the secondary induction assembly.
- 13. The method of claim 12, further comprising: triggering an event to energize the primary winding.
- 14. The method of claim 13, the triggering further comprising: varying a light feature.
- 15. The method of claim 13, the triggering further comprising: moving a user's body part in a predetermined manner.

- 16. The method of claim 9, further comprising:
 charging the rechargeable power supply *via* a scavenging method employing at least one of a user's body heat, user's foot pressure, and solar energy.
- 17. The method of claim 9, further comprising: aligning the second induction assembly in close spatial proximity to the first induction assembly.
- 18. The method of claim 9 further comprising:

 carrying the first induction assembly by a member of a group; and
 approaching the member when an opportunistic recharge is required for portable
 units of other members.
- 19. A charging system for a portable unit comprising: a primary induction assembly with a primary coil coupled to a primary power source; and

a secondary induction assembly with a secondary coil coupled to a rechargeable power source of the portable unit; the magnetic flux of the first primary induction assembly extendable to the secondary induction assembly so as to provide the rechargeable power source a charging current that is inductively created *via* the magnetic flux during an opportunistic charging of the portable unit.

- 20. The charging system of claim 19 further comprising:
 a controller in wireless communication with the portable unit for monitoring a state of charge of the rechargeable power source.
- 21. The charging system of claim 20, the controller comprising a sensor.
- 22. The charging system of claim 21, the sensor is at least one of a motion and a light sensor.

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- 23. The charger system of claim 19, the rechargeable power source is at least one of a fuel cell, a capacitor, a super capacitor, and a rechargeable battery cell.
- The charger system of claim 20, the controller determines a charging time for the 24. portable unit and allocates a charge time thereto.
- 25. The charger system of claim 19, at least one of the portable unit and the charger system is wearable around a user's body.
- 26. The charger system of claim 20, further comprising: a notifying system that alerts a user of a power status of the rechargeable power supply.
- 27. The charger system of claim 20, the primary induction assembly is part of a flat pad.
- 28. The charger system of claim 25, further comprising: a thermo-coupler connected to a user's body for additionally recharging at least one of the primary power source and the rechargeable power source.
- A charger system for charging a portable unit comprising: means for creating a magnetic flux; and means for receiving a magnetic flux, the receiving means operatively connected to a rechargeable power source of the portable unit so as to create an electric current during an opportunistic charge of the portable unit.